

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method for producing a modified propylene homopolymer, the method comprising:

modifying a propylene homopolymer with a radical initiator and an organic acid;<sub>;</sub>

wherein the propylene homopolymer satisfies the conditions;<sub>of</sub>

(a)  $m m m m = 20 \text{ to } 60 \text{ mol}\%$ ,<sub>%;</sub>

(b)  $[r r r r / (1 - m m m m)] \leq 0.1$ ;<sub>;</sub>

(c)  $r m r m > 2.5 \text{ mol}\%$ ,<sub>%;</sub>

(d)  $m m \times r r / (m r)^2 \leq 2.0$ ;<sub>and</sub>

(e) ~~the~~ a weight ratio (W25) of components eluted at 25°C or lower in a temperature programmed chromatography is 20 to 100% by weight.

Claim 2 (Currently Amended): The method according to claim 1, wherein the propylene homopolymer further satisfies at least one of the conditions;<sub>of</sub>

(f) ~~the~~ a molecular weight distribution (Mw/Mn) measured by a gel permeation chromatography (GPC) is 5 or less,~~and/or;~~ and

(g) ~~the~~ a limiting viscosity  $[\eta]$  measured in tetralin at 135° C. is 0.1 dL/g or more.

Claims 3-4 (Cancelled)

Claim 5 (Previously Presented): The method according to claim 1, wherein the propylene homopolymer is modified in an organic solvent.

Claim 6 (Previously Presented): The method according to claim 1, wherein the propylene homopolymer is modified in the molten state.

Claim 7 (Previously Presented): The method according to claim 1, wherein the radical initiator is a peroxide, and the organic acid is maleic anhydride, acrylic acid, or an alkyl acrylate.

Claim 8 (Previously Presented): The method according to claim 1, wherein the propylene homopolymer is modified in the presence of a styrene-based compound.

Claim 9 (Original): A modified propylene homopolymer obtained by the method according to claim 1.

Claim 10 (Cancelled)

Claim 11 (Original): An adhesive composition comprising the modified propylene homopolymer according to claim 9.

Claim 12 (Previously Presented): The adhesive composition according to claim 11, wherein the adhesive composition comprises 20 to 99% by weight of the modified propylene homopolymer and 1 to 80% by weight of a tackifying resin.

Claims 13-18 (Cancelled)